In the Claims:

1.   A method for performing resource pool size maintenance for an application server,
comprising:

    triggering a resource pool shrink check;

    determining that pool shrinking is necessary;

    reducing resources in an unavailable deque; and

    reducing resources in an available deque.

2.   The method of claim 1 wherein said triggering a resource pool shrink check includes:

    determining that a period of time has expired; and

    performing the resource pool shrink check at the expiration of the period of time.

3.   The method of claim 2 wherein the period of time is set by a programmable attribute.

4.   The method of claim 1 wherein said determining that pool shrinking is necessary
includes:

    detecting resources contained in an available deque or a unavailable deque.

5.   The method of claim 1 wherein determining that pool shrinking is necessary includes:

    determining the number of resources in the resource pool is greater than a maximum
resource pool threshold value.

6.   The method of claim 5 wherein the maximum resource pool threshold value is set by a programmable attribute.

7.   The method of claim 1 wherein reducing resources in an unavailable deque includes:

       reducing resources in an unavailable deque to coincide with a maximum unavailable resources threshold.

8.   The method of claim 7 wherein the reduced resources in the unavailable deque are destroyed.

9.   The method of claim 1 wherein reducing resources in an available deque includes:

       reducing resources in an available deque to coincide with a maximum available resources threshold.

10.   The method of claim 9 wherein resources in the available deque are destroyed.

11.   A method for performing resource pool maintenance for an application server, comprising:

       triggering a test for pool resources;

       performing a test on pool resources; and

       refreshing pool resources based on the pool resources testing.

12.   The method of claim 11 wherein said triggering a test for pool resources includes:

determining that a period of time has expired; and

performing the resource pool shrink check at the expiration of the period of time.

13.   The method of claim 11 wherein said performing a test on pool resources includes:

determining if pool resources are functioning properly, wherein the resources are
refreshed if they are not functioning properly.

14.   A method for performing maintenance on connection pool deques in an application
server, comprising:

traversing an unavailable deque and a reserved deque;

performing maintenance on the unavailable deque; and

performing maintenance on the reserved deque.

15.   The method as claimed in claim 14 wherein said traversing an unavailable and a reserved
deques includes:

determining what resources are available in the unavailable deque and the reserved
deques.

16.   The method as claimed in claim 14 wherein said performing maintenance on the
unavailable deque includes:

scheduling resource creation for each resource in the unavailable deque.

17.   The method as claimed in claim 14 wherein said performing maintenance on the reserved deque includes:

scheduling resource creation for each resource in the reserved deque.

18.   A method for performing resource creation in a connection pool in an application server, comprising:

generating a resource in connection pool;

confirming the generation of the resource in the connection pool;

moving the resource to an available deque;

19.   The method of claim 18 further comprising:

determining that a period of time has expired; and

generating a resource at the expiration of the period of time.